

## SEQUENCE LISTING

### (1) GENERAL INFORMATION

(i) APPLICANT: Rakoczy et al.  
(ii) TITLE OF THE INVENTION: HYALURONIC ACID AS DNA CARRIER FOR  
GENE THERAPY AND VEGF ANTISENSE DNA  
TO TREAT ABNORMAL RETINAL  
VASCULARIZATION  
(iii) NUMBER OF SEQUENCES: 11  
(iv) CORRESPONDENCE ADDRESS:  
(A) ADDRESSEE: ARTER & HADDEN  
(B) STREET: 725 South Figueroa St, # 2400  
(C) CITY: Los Angeles  
(D) STATE: CA  
(E) COUNTRY: USA  
(F) ZIP: 90071  
(v) COMPUTER READABLE FORM:  
(A) MEDIUM TYPE: Diskette  
(B) COMPUTER: IBM Compatible  
(C) OPERATING SYSTEM: DOS  
(D) SOFTWARE: FastSEQ for Windows Version 2.0  
(vi) CURRENT APPLICATION DATA:  
(A) APPLICATION NUMBER: USSN 09/065,082  
(B) FILING DATE: 4-23-1999  
(C) CLASSIFICATION:  
(vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: PCT AU96/00664  
(B) FILING DATE: 10-22-1996  
(viii) ATTORNEY/AGENT INFORMATION:  
(A) NAME: Amzel, Viviana  
(B) REGISTRATION NUMBER: 30,930  
(C) REFERENCE/DOCKET NUMBER: EPI-109  
(ix) TELECOMMUNICATION INFORMATION:  
(A) TELEPHONE: 213-430-3520  
(B) TELEFAX: 213-617-9255  
(C) TELEX:

### (2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: cDNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AGGAGAGCAG AAGTCCCAT 19

### (2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: cDNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CGTCAGAGAG CAACATCAC 19

### (2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 77 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: cDNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CCAGACTCCA CAGTGCATAC GTGGGCTCCA ACAGGTCTC TTCCCTCCCA 50  
GTCACTGACT AACCCCGGAA CCACACCA 77

### (2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

(ii) (A) LENGTH: 130 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULE TYPE: cDNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
 CCTGTCCCCG CCCCCCGGGC GGGCCGGGG CGGGGTCCCG GCGGGGCGGA 50  
 GCCATGCGCC CCCCCCTTT TTTTTTAAA AGTCGGCTGG TAGCGGGGAG 100  
 GATCGCGGAG GCTTGGGGCA GCCGGGTAGC 130

(2) INFORMATION FOR SEQ ID NO:5:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 60 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULE TYPE: cDNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
 CTGACGGAGA GACAGACAGA CACCGCCCC AGCCCCAGCT ACCACCTCCT 50  
 CCCCCGGCCGG 60

(2) INFORMATION FOR SEQ ID NO:6:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 89 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULE TYPE: cDNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
 TGCAGCAGACA GTGCTCCAGC CGCGCGCGCT CCCCCAGGCC TGGCCCGGGC 50  
 CTCGGGCCGG GGAGGAAGA 59

(2) INFORMATION FOR SEQ ID NO:7:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULE TYPE: cDNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
 AAAGTGTATT ATATACGGTA CTTATTTAAT ATCCCTTTT AATTAGAAAT 50  
 TAAACAGTT AATTAAATTA AAGATAGGGT TTTTTTCA 89

(2) INFORMATION FOR SEQ ID NO:8:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 62 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULE TYPE: cDNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
 TTTTTTAATT TTAATATTTG TTATCATTAA TTTATTGGTG CTACTGTTA 50  
 TCCGTAATAA TT 62

(2) INFORMATION FOR SEQ ID NO:9:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULE TYPE: cDNA  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
 ATACATTTAT ATATATATAT ATTATATATA TATAAAAATA AATATCTCTA 50  
TTTTATATAT ATAAAATATA TA 72

(2) INFORMATION FOR SEQ ID NO:10:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 89 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
AAAGTGTTTT ATATACGGTA CTTATTTAAT ATCCCTTTT AATTAGAAAT 50  
TAAAACAGTT AATTTAATTA AAGATAGGGT TTTTTTCA 89

(2) INFORMATION FOR SEQ ID NO:11:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 61 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: cDNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
TCTTAAAAAA AAAAAAAGCAT TTTGTATTAA AGAATTAAAT TCTGATCTCA 50  
AAGCTCCTCT T 61